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In preparing the soil for your wild flowers, you will need to be careful not to make it too rich; since many wild flowers will be coarsened by too much plant-food. The violets, particularly, will give you no blossoms, but a great growth of leaves. All plants from the prairies will do well in ordinary garden soil. It is not necessary to try to imitate their native soil. The plants from the wood will need shade, and watering now and then. The north side of a hedge fence trimmed somewhat high would be best; but the shady side of a stone wall or building, perhaps the house itself, will do very well. Woodland plants will do better for an admixture of leaf loam in the soil; and it seems to be a necessity for ferns.

In making the water garden, it would be well, I think, to sink the half-barrel, or whatever you use, in the ground in a shady place; then, the most of your water-plants will grow about the edge, where you can keep them sufficiently moist.

It will not be necessary to know the scientific names of flowers, nor even any name at all. We have very few poisonous plants, and those are not usually attractive; so that you may take anything that strikes your fancy. It may be best to gather seeds of late-blooming sorts, sowing the seed in early spring, not too early for warmth.

My paper will not be complete perhaps, unless I add a few "do n'ts."

It would be best to avoid cultivating any member of the family *Convolvulus*, or morning-glory. You will be tempted, if you love vines, to take the *Ipomœa pandurata*, old-man-in-the-ground, largely advertised a few years ago as the hardy day moonflower, but *do n't*. Nor must you have anything to do with the beautiful white bindweed, unless you have courage to pull up and dig out all sprouts you do not wish to grow. Nor would I advise growing any of the sun-flowers, although our common sunflower, *Helianthus annuus*, is a bright and wholesome plant; yet it has, sometimes, such a quantity of seed that it is impossible to prevent its spreading. Another member of the family, our abundant rock-weed, *Helianthus orgyalis*, is grown in Eastern gardens and considered very desirable. The long, drooping leaves are as much in demand as the flower.

Of the ox-eyed daisy and the sweet clovers I need not speak. You all know their capabilities.

ADDITIONS TO THE LIST OF KANSAS COLEOPTERA FOR THE YEARS 1899 AND 1900.

BY WARREN KNAUS, MCPHERSON.

Read before the Academy December 28, 1900.

The additions to the list of Kansas coleoptera for the past two seasons number 236 species, a much larger number than has been added in recent years. This has largely been through the work of Mr. F. F. Crevecoeur, of Onaga, Kan., who has, by careful collecting among the small forms near his home, added 150 species. Quite a number of those added the past two years were rare and unique forms, representing the northern extension of the Texan fauna.

The present additions bring the number of Kansas coleoptera up to 2500, and a careful revision of material now in Kansas collections would certainly increase this number to a considerable extent.

The bulk of the determinations in the present list were made by Mr. Charles Liebeck, of Philadelphia, Pa., in charge of the Dr. G. H. Horn collection of coleoptera; H. C. Fall, of Pasadena, Cal., and by the Department of Agriculture, Washington, D. C., to whom acknowledgments are due.

HENSHAW'S NUMBERS, WITH LATER DETERMINATIONS UNNUMBERED.

25b	<i>Cicindela graminea</i> Schaupp.....	Salina, Medora, McPherson, Mar., April, September, October.
59a	“ <i>apicalis</i> W. Horn.....	Republic, Stafford, Kiowa, Salt Marsh, June, July, August.
240	<i>Dyschirius erythrocerus</i> Lec.....	Onaga.
456	<i>Tachys xanthopus</i> Dej.....	Salina.
462	“ <i>granarius</i> Dej.....	Onaga.
482	<i>Trechus rubens</i> Fab.....	Onaga.
563	<i>Pterostichus texanus</i> Lec.....	Coolidge, June. One specimen.
603	“ <i>mandibularis</i> Kirby.....	Onaga.
618	<i>Evarthrus torvus</i> Lec.....	Onaga.
766	<i>Platynus sinuatus</i> Dej.....	Onaga.
839	<i>Olisthopus parmatatus</i> Say.....	Onaga.
924	<i>Callida fulgida</i> Dej.....	Onaga.
949	<i>Apenes lucidula</i> Dej.....	McPherson, July, August. Elec- tric lights.
957	<i>Helluomorpha clairvillei</i> Dej.....	Medora, May 29. Two specimens.
1001	<i>Chlænienus diffinis</i> Chd.....	Onaga.
1049	<i>Oodes texanus</i> Lec.....	Onaga.
1233	<i>Halipilus edentulus</i> Lec.....	McPherson. Electric lights. August.
1275	<i>Bidessus affinis</i> Say.....	Onaga.
1310	<i>Hydroporus pulcher</i> Lec.....	Wilson county.
1311	“ <i>vittatipennis</i> Lec.....	Wilson county.
1496b	<i>Thermonectes latecinctus</i> Lec.....	Onaga.
1532	<i>Dinuetes vittatus</i> Germ.....	McPherson, June, July, August. Electric lights.
1594	<i>Hydrophilus ellipticus</i> Lec.....	Wallace, July.
1685	<i>Phænonotum extriatum</i> Say.....	Near Marquette, October 15.
.....	<i>Anisotoma</i> , sp. near <i>strigata</i> Lec.....	Onaga.
1795	<i>Agathidium exiguum</i> Melsh.....	Onaga.
1831	<i>Scydmanus hirtellus</i> Lec.....	Onaga.
1877	<i>Pselaphus erichsonii</i> Lec.....	Onaga.
1996	<i>Falagria cingulata</i> Lec.....	Onaga.
.....	<i>Hoplandria ochraceæ</i>	Onaga.
.....	<i>Aleochara</i> , three new species.....	Onaga.
2186	<i>Philonthus fulvipes</i> Fab.....	Onaga.
2207	“ <i>inquietus</i> Er.....	Onaga.
2274a	<i>Xantholinus fusiceps</i> Fauval.....	Onaga.
2443	<i>Stenus flavicornis</i> Er.....	Onaga.
2572	<i>Pæderus palustris</i> Aust.....	Onaga.
2591	<i>Palaminus nominalus</i> Lec.....	Onaga.
2625	<i>Tachinus fumipennis</i> Say.....	Onaga.
2666	<i>Boletobius cinctus</i> Grav.....	Onaga.
2670	<i>Bryoporus rufescens</i> Lec.....	Onaga.
2799	<i>Geodromicus brunneus</i> Say.....	Near Marquette, October 15.
2852	<i>Homalium humorosum</i> Fauv.....	Benedict.
2914	<i>Nossidium americanum</i> Mots.....	Onaga.
3024	<i>Corylophus truncatus</i> Lec.....	Onaga.
3043	<i>Hippodamia lecontei</i> Muls.....	Onaga.
3055	<i>Coccinella affinis</i> Rand.....	Onaga and Hutchinson, May.
3088	<i>Cryptognatha pusilla</i> Lec.....	Onaga.
3160	<i>Scymnus punctum</i> Lec.....	Onaga.

3168	<i>Scymnus phelpsii</i> Cr.	Near Superior, Neb., June.
.....	“ <i>intrusus</i> Horn.	Onaga.
.....	“ <i>n. sp.</i>	Onaga.
3225a	<i>Tritoma ruficeps</i> Lec.	Onaga.
3225c	“ <i>aulica</i> Horn.	Onaga.
3339	<i>Læmophloeus ferrugineus</i> Steph.	Onaga.
.....	<i>Crosimus hirtus</i> Casey.	Onaga.
3364	<i>Cryptophagus cellaris</i> Scop.	Onaga.
3387	<i>Atomaria lætula</i> Lec.	Onaga.
3503	<i>Hister bimaculatus</i> Linn.	McPherson, May.
3640	<i>Teretrius americanus</i> Lec.	Onaga.
3673	<i>Carpophilus pallipennis</i> Say, var <i>floralis</i> Er.	Belvidere, June.
3675	“ <i>melanopterus</i> Er., and var. <i>rufus</i> , Murry.	Rago and Medora, in yucca flowers, May and June.
3706	<i>Epurea avara</i> Rand.	Benedict, April.
3805	<i>Corticaria serrata</i> Payk.	Onaga.
3871	<i>Bactridium striolatum</i> Reit.	Onaga.
3919	<i>Pelonomus obscurus</i> Lec.	McPherson, elec. lights, June, July.
10015	<i>Heterocerus gemmatus</i> Horn.	Onaga.
4006	<i>Scirtes orbiculatus</i> Fab.	Onaga.
4041	<i>Fornax calceatus</i> Say.	Benedict.
4064	<i>Analastes druryi</i> Kirby.	McPherson, August.
4064a	“ <i>latreillei</i> Lec.	McPherson. Electric lights.
4068	<i>Sarpedon scabrosus</i> Bonv.	Onaga.
.....	<i>Cryptohypnus</i> , <i>n. sp.</i>	Onaga.
4297	<i>Dolopius lateralis</i> Esch.	Onaga.
4358	<i>Limonium plebejus</i> Say.	Onaga.
4363	“ <i>quercinus</i> Say.	Onaga.
4476	<i>Corymbites medianus</i> Germ.	Onaga.
10071	<i>Chrysobothris purpureovittata</i> Horn. .	Belvidere, June. Three specimens.
10091	“ <i>scitula</i> Gory.	Onaga.
4666	<i>Actenodes acornis</i> Say.	Onaga.
4721	<i>Agrilus ruficollis</i> Fab.	Onaga and Salina.
10129	“ <i>abjectus</i> Horn.	Onaga.
4740	“ <i>torpidus</i> Lec.	Onaga.
4828	<i>Photinus lineellus</i> Lec.	Onaga.
4958	<i>Telephorus lautus</i> Lec.	Onaga.
4975	<i>Malthinus occipitalis</i> Lec.	Onaga.
4979	<i>Malthodes concavus</i> Lec.	Onaga.
.....	<i>Pseudebæus</i> , <i>n. sp.</i>	Onaga and Salina.
5051	<i>Attalus basalis</i> Lec.	Onaga.
5099	<i>Pristoscelis rufipennis</i> Lec.	Wallace, July.
5120	<i>Dasytes ruficollis</i> Ulke.	Onaga.
5136	<i>Cymatodera bicolor</i> Say.	Onaga.
5159	<i>Trichodes nuttalli</i> Kirby.	Medora, June. One specimen.
5272	<i>Hadrobregmus linearis</i> Lec.	Onaga.
.....	<i>Eupactus</i> , <i>n. sp.</i>	Onaga.
.....	<i>Xyletinus</i> , <i>n. sp.</i> , near <i>lugubrius</i> , Lec. .	Onaga.
.....	<i>Hemiptychus</i> , <i>n. sp.</i>	Onaga.
5321	<i>Dorcatoma setulosum</i> Lec.	Onaga.
5400	<i>Cis punctatus</i> Mellie.	Onaga.
5427	<i>Canthon depressipennis</i> Lec.	Coolidge, June.
5439	“ <i>perplexus</i> Lec.	Benedict. One specimen.

10189	<i>Atænius strigatus</i> Say	Onaga.
10190	“ <i>cognatus</i> Lec.	Onaga.
5521	<i>Aphodius haldemani</i> Horn.	Onaga.
5629	<i>Trox scaber</i> Linn	Onaga.
5718	<i>Diplotaxis dubia</i> Lec.	Onaga.
.....	“ n. sp.	Rago, June.
5841	<i>Strigoderma pygmæa</i> Fab.	Rago and Spivey, June.
6093	<i>Obrium rubidum</i> Lec.	Benedict. One specimen.
6210	<i>Cyrtophorus verrucosus</i> Oliv.	Onaga.
6213	<i>Eudermes pini</i> Oliv.	Onaga.
6259	<i>Acmæops bivittata</i> Say	Onaga.
6354	<i>Leptura pubera</i> Say	Onaga.
6435	<i>Lepturges symmetricus</i> Hald.	Onaga.
6440	<i>Hyperplatys aspersus</i> Say	Onaga.
.....	<i>Mecas cana</i> Newm.	Belvidere, June.
6496	<i>Oberea bimaculata</i> Oliv.	Onaga.
6501	“ <i>ocellata</i> Hald.	Onaga.
6503a	“ <i>myops</i> Hald.	Medora, June.
6535	<i>Donacia distincta</i> Lec.	Onaga.
6562	<i>Lema cornata</i> Fab.	Medora, June.
6604	<i>Exema gibber</i> Oliv.	Onaga.
6608	<i>Bassaræus formosus</i> Melsh	Rago and Coolidge, June.
6610	“ <i>mammifer</i> Newm.	Onaga.
6610c	“ <i>luteipennis</i> Melsh	Onaga.
6628c	<i>Cryptocephalus cinctipennis</i> Rand	Onaga.
6725	<i>Fidia viticida</i> Walsh.	Onaga.
10359	<i>Metachroma parallellum</i> Horn.	Medora, May, June, on willow.
6753	“ <i>angustata</i> Cr.	Medora, May, June, on willow.
6764	“ <i>lavicollis</i> Cr.	Onaga.
10363	<i>Graphops varians</i> Lec.	Belvidere, June, July, August.
.....	<i>Rhabdoptera</i> , n. sp.	Onaga.
6805	<i>Chrysomela elegans</i> Oliv.	Onaga.
.....	<i>Zygogramma heterothecæ</i> Lin.	Belvidere, June, July, August.
6856	<i>Luperus thoracicus</i> Melsh	Onaga.
6891a	<i>Diabrotica fossata</i> Lec.	Onaga.
6892a	<i>Trirhabda virgata</i> Lec.	Onaga.
6894	“ <i>attenuata</i> Say.	Wallace, July.
6901	<i>Adimonia sexvittata</i> Lec.	Onaga.
6917	<i>Monoxia consputa</i> Lec.	Coolidge, May.
6958a	<i>Disonychia collata</i> Fab.	Onaga.
6972	<i>Haltica punctipennis</i> Lec	Wallace and Belvidere, June, July.
6990	<i>Crepidodera lobata</i> Cr.	Onaga.
10431	<i>Orthaltica melina</i> Horn	Onaga.
7008	<i>Longitarsus testaceus</i> Lec.	Onaga.
7029	<i>Phyllotreta æneicollis</i> Cr.	Onaga.
7032	<i>Mantura floridana</i> Cr.	Near Superior, Neb., May.
7067	<i>Microrhopala excavata</i> Oliv.	Onaga.
7100	<i>Cassida texana</i> Cr.	Belvidere, Aug. One specimen.
7136	<i>Bruchus pauperculus</i> Lec.	Onaga.
7155	“ <i>musculus</i> Say.	Onaga.
7431	<i>Blapstinus sulcatus</i> Lec.	Coolidge, June.
7476	<i>Alphitobius piceus</i> Oliv.	McPherson, July.

7523	<i>Platydemia micans</i> Horn	McPherson, June.
.....	<i>Hymenorus</i> , n. sp.	Belvidere, June.
7590	<i>Allecula atra</i> Say	Medora.
7607	<i>Cistela sericea</i> Say	Onaga.
.....	<i>Mycetocharis</i> n. s., near <i>megalops</i> Csy.	Onaga.
7773	<i>Tomoxia bidentata</i> Say	Wallace, July.
7799	<i>Mordellistena lepidula</i> Lec.	Onaga.
7852	“ <i>bihamata</i> Melsh.	Onaga.
7899	<i>Xylophilus basalis</i> Lec.	Onaga.
7900	“ <i>nebulosus</i> Lec.	Onaga.
.....	“ two new species	Onaga.
.....	<i>Lappus lividus</i> Csy	Belvidere, August.
7930	<i>Mecynotarsus candidus</i> Lec.	Medora, June. Sand-hills.
7939	<i>Anthicus tenuis</i> Lec.	Onaga.
.....	“ n. sp.	Onaga.
7976	“ <i>pallens</i> Lec	Medora, June. Sand-hills.
.....	<i>Malporus properus</i> Csy	Onaga.
7994	<i>Dendroides canadensis</i> Lat.	Onaga.
8050	<i>Zonitis longicornis</i> Horn	Onaga.
8139	<i>Cantharis biguttata</i> Lec.	Wallace, July.
8140	“ <i>fulvipennis</i> Lec.	Belvidere, June, on Mex. poppy.
8183	<i>Myodites scaber</i> Lec.	McPherson, June; and Onaga.
8209	<i>Eugnamptus sulcifrons</i> Gyll.	Onaga.
8216	<i>Rhynchites glastinus</i> Lec	Coolidge, June.
8228	<i>Attelabus rhois</i> Boh	Onaga.
8257	<i>Dichoxenus setiger</i> Horn.	Rago and Garden City, June.
8307	<i>Trachyphloeus, asperatus</i> Boh.	Onaga.
.....	“ n. s. near <i>asperatus</i> Boh.	McPherson.
8336	<i>Mitostylus tenuis</i> Lec.	Belvidere, June, July, August.
8371	<i>Apion impunctistriatum</i> Sm.	Rago, June.
8397	“ <i>oblitum</i> Sm.	Medora, Belvidere, Sharp's Creek, June.
8409	“ <i>modestum</i> Sm.	Near Superior, Neb., Rago, May to August.
8414	“ <i>varicorne</i> Sm.	Wallace, July.
8419	“ <i>tenuirostrum</i> Sm.	McPherson, June.
8466	<i>Macrops humilis</i> Gyll.	McPherson. Electric lights.
10834	“ <i>obscurellus</i> Deitz	Onaga.
8515	<i>Cleonopsis pulvereus</i> Lec	Belvidere, August.
8523	<i>Cleonus canescens</i> Lec.	Rago, June.
10896	<i>Desmoris pervisus</i> Deitz.	Belvidere, August.
8563	<i>Phyllotrox nubifer</i> Lec.	Onaga.
8570	<i>Endalus setosus</i> Lec.	McPherson, Wallace, July.
.....	“ n. sp.	Wallace, July.
.....	“ n. sp., near <i>cribricollis</i> Lec.	Onaga.
8578	<i>Anchodemus angustus</i> Lec.	McPherson, June.
10971	<i>Macrorhoptus hispidus</i> Deitz.	Near Superior, Neb., June. One specimen.
.....	<i>Bagous</i> , n. sp.	Onaga.
8615	<i>Magdalis barbata</i> Say	Benedict. One specimen.
8623	“ <i>inconspicua</i> Horn.	Onaga.
8653	<i>Anthonomus tectus</i> Lec.	Belvidere, August.
8654	“ <i>hirtus</i> Lec.	Wallace and Coolidge, July.

8661	<i>Anthonomus crategi</i> Walsh.....	Onaga.
.....	“ <i>molaculus</i> Csy.....	Rago, August.
10987	“ <i>bolteri</i> Deitz.....	Onaga, and Superior, Neb.
10992	“ <i>consimilis</i> Deitz	Onaga.
10999	“ <i>albophilus</i> Deitz.....	Belvidere and Phillips county, July, August.
8673	<i>Orchestes pallicornis</i> Say.....	Onaga.
11019	<i>Pseudanthonomus incipiens</i> Deitz	Salina.
8685	<i>Piazorhinus scutellaris</i> Say.....	Onaga.
8693	<i>Tylopterus varius</i> Lec	Onaga.
8718	<i>Conotrachelus elegans</i> Say.....	Onaga and McPherson.
8738	“ <i>erinaceus</i> Lec.....	Onaga and southeast Kansas.
8812	<i>Copturus nanulus</i> Lec.....	Rago, June.
8834	<i>Cœliodes flavicaudis</i> Boh.....	Onaga.
8845	<i>Ceutorhynchus pusio</i> Mann.....	Onaga.
8852	“ <i>septentrionalis</i> Gyll...	Onaga.
.....	“ <i>affluentus</i> Csy.....	Onaga.
8865	<i>Rhynonchus longulus</i> Lec.....	Onaga.
.....	“ <i>occidentalis</i>	Onaga.
.....	<i>Acanthocelis curtus</i>	Onaga and Salina.
11144	<i>Ampelogypter longipennis</i> Csy.....	Salina and Onaga.
11186	<i>Limnobaris deplanata</i> Csy.....	Onaga.
8900	<i>Onychobaris rugicollis</i> Lec.....	Onaga.
11210	<i>Barilepton famelicum</i> Csy.....	Onaga.
8960	<i>Balaninus uniformis</i> Lec.....	McPherson, June. Electric lights.
.....	“ <i>sulcatus</i> Csy	Onaga.
.....	<i>Sphenophorus</i> , n. sp.....	Coolidge, July.
9055	<i>Monarthrum fasciatum</i> Say.....	Benedict, April.
9111	<i>Xyleborus pubescens</i> Zimm.....	Onaga.
9152	<i>Scolytus ventralis</i> Lec.....	Onaga.
9228	<i>Brachytarsus tomentosus</i> Say.....	Onaga.
.....	“ n. sp.....	Onaga.
9230	<i>Anthrribulus rotundatus</i> Lec	McPherson, May. One specimen.

THE BLACK DUCK IN KANSAS.

BY R. MATTHEWS, WICHITA.

Read before the Academy, by Secretary Lantz, December 29, 1900.

I have left with Mr. B. B. Smyth, curator of the Academy, a skin of the black duck, *Anas obscura* (Gmel.)* It was captured at Greenfield lake, in the extreme southwestern part of Reno county, in 1896, by Mr. C. H. Smyth.

Another specimen, which I have sent to Professor Snow, was taken in November, 1891, at the same place and by the same person. They have been in my possession since their capture.

I wish to report the birds and send the skin in corroboration, as they have been in dispute since 1872, when Professor Snow reported them in his first catalogue of the birds of Kansas.

*I have examined the skin referred to, and find that, although not typical of the adult bird, it must unquestionably be referred to *Anas obscura* instead of *Anas fulvigula maculosa*, (Senn.), (the mottled duck), as have the specimens heretofore known to have been taken in the state.—D. E. LANTZ.